



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
Water Permits Section

**NOI Supplement for Type 3.04 General Aquifer Protection Permit
for Non-Storm Water Impoundments at Mining Sites [A.A.C. R18-9-D304]**

This General Permit allows for discharges to lined surface impoundments, lined secondary containment structures and lined conveyance systems at mining sites. This permit does not authorize impoundments that continually contain process solution as a normal function of facility operations or any storage of process solutions containing a pollutant regulated under A.R.S § 49 - 243(I) that compromises the integrity of the liner. If the proposed discharge, design or operations do not conform to this rule, the owner or operator must obtain an individual APP.

Note: Please ensure that the narrative, design drawings, and any supplemental information provided is comprehensive and adequate to demonstrate conformance with A.A.C. R18-9-D304.

1. Attach a **narrative description of the facility** to be addressed under this General Permit. Describe the design and operation of the impoundment. Please place a check in the following boxes indicating that you have provided all of the following details in the narrative:
 - " Description of the location, dimensions, capacity, and design and construction of the impoundment
 - " Demonstration that design and installation requirements are consistent with R18-9-D301(C)(1) and (C)(4)(a)
 - " Description of the Quality Assurance/Quality Control program that meets or exceeds the liner manufacturer's specifications and includes subgrade preparation, liner installation, inspection procedures, field testing, laboratory testing and repair of seams during installation, and final inspection of the completed liner for functional integrity
 - " Demonstration that facility is adequately sized to handle projected maximum inflows plus any stormwater run-on, including sufficient freeboard
 - " Provisions for recordkeeping consistent with R18-9-D304(E)
 - " A plan for impoundment inspection, maintenance, and repair consistent with R18-9-D304(D)

2. If there are identified geologic hazards at this site, have you detailed any special design considerations or adjustments due to the identified hazards per R18-9-D304(C)(7) " yes " N/A- there are no geologic hazards
3. Is any part of the impoundment located in the 100-year flood plain " yes " no
If "yes" have you explained in the narrative how the design protects it from damage or flooding during such events " yes
4. Please provide the depth to groundwater in the area of the impoundment, and indicate how this was determined.

5. Identify below, by type and volume, all discharges which are, or have been, directed to the impoundment addressed under this permit (use additional pages if necessary):

List all process(es) generating the wastewater(s) directed to the impoundment and a brief description of each	Expected Average daily flow to be discharged	Expected Maximum flow per day to be discharged

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6. Does the impoundment receive process solutions, other than for temporary storage due to process upsets " yes " no
If "yes", refer to the Arizona Mining BADCT Guidance Manual for an individual APP for the process solution in the impoundment.
7. For facilities that are already operating, have you attached a representative chemical analysis of expected sources of inflow to the impoundment " yes
Note: If a representative sample is not available before facility construction, a chemical analysis of solution present in the facility shall be provided to the Department within 90 days of the solution first entering the facility.
8. Have you attached a contingency plan that specifies actions to be taken in case of overflow, overtopping, or other accidental releases, and in the event unauthorized inflows are directed to the impoundment " yes
9. Have you included documentation that the design plans for the impoundment have been reviewed by a mining engineer or an Arizona registered P.E. " yes